U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

Shipbuilding, a	nd Sh	ipbreaking	(29 CFR 1915, 191	6, 1917)			
		SECTI	ONI		· · · · · · · · · · · · · · · · · · ·		
MANUFACTURER'S NAME				EMERGENCY TELE	and the second second	ю. -	company to the Children of the
Expanded Rubber & Plastics Corp. ADDRESS (Number, Street, City, State, and ZIP Code)			<u> </u>	(213) 321-426		9.5.	
14000 So. Western Ave., Gardena	ĆA	90249	Brian Macias				
Polyester Prepolymer	· =···		TRADE NAME AND SYNONYMS Stafoam FORMULA				
Polyurethane Isocyanate Compou	nd		AA 610	0, Component 7	Γ	-	
SECTION	11	UAZAD	DAC #	DPM 6117		i se se Janata	e di ima Ganglestia
	T -	TLV	and the second second second second				TLV
PAINTS, PRESERVATIVES, & SOLVENTS	*	(Units)	e same e de la companya de la compa	IETALLIC COATING		%	(Units)
PIGMENTS PROFILE CONTROL BY NEW YORK TO AMERICA			BASE METAL	The second secon	C PALESTO.	**	s lági _{ste} ssáití
CATALYST	+	A STATE OF THE STA	ALLOYS	والمنافية في في المنافقة و والمنافقة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة المنافقة ا	al tolk colored apare	- NO	و به در والمعاولة شديد .
VEHICLE		der gericht gewert gewert. Der Schaufter gewert gewert	METALLIC COATING	S	Same and the same	- vertice -	and the second
SOLVENTS PER TO PROPERTY OF THE PROPERTY OF TH		<u>مِنْ يَنْهِ ال</u>	FILLER METAL PLUS COATING OR C	ORE FLUX			1775
AODITIVES		The second secon	OTHERS		स्थान करणा । स्थान करणा	1000	1.755
OTHERS				41110	al er kirkirikiri.	Asper	A STATE OF THE STA
HAZARDOUS MIXTURES	OF	OTHER LIC	UIDS, SOLIDS, OF GA	SESA	u manna sair n	*	TLV (Units)
Toluene Diisocyanate	0)	isomer		3 8 = 7	<u> </u>	118	0.02 p
Polyester Polyol (n H	<i>∞ ∞</i>		- 4 - E	Tale Landson	- tay	
	711	Jimil			6/ /	- 4	e e e e e e e e e e e e e e e e e e e
	1.57				7		· · · · · · · · · · · · · · · · · · ·
<u> </u>					<u>/ </u>		
SEC	TIO	N 111 - P	HYSICAL DATA	खानक्रि			
BOILING POINT (°F.)	- T		SPECIFIC GRAVITY	(H ₂ O=1) @ 25 ^O C	:	~	1.2
VAPOR PRESSURE (mm Hg.)			PERCENT, VOLATIL	E			
VAPOR DENSITY (AIR=1)	- -		EVAPORATION RAT	E			
SOLUBILITY IN WATER PORCES with			-1				
Reacts with			ellow, pungent		1		
APPEARANCE AND ODOR Water White	e	pare y	errow, pungent	odor		· 	
SECTION IV -	FIF	RE AND	XPLOSION HAZ	ARD DATA			•
FLASH POINT (Method used) 270°F, C.O	C		FLAMMABLE LIN	MITS 2950F	Lei	Ţ	Uei
EXTINGUISHING MEDIA Water fog, Co		Dry cho			**************************************		
SPECIAL FIRE FIGHTING PROCEDURES People who are fighting TDI fin				inst TDI and i	nitroge	en_	<u>.</u> dioxid
vapors and should wear a self-							
UNUSUAL FIRE AND EXPLOSION HAZARDS Avoid water contamination in d					O ₂ gas	wí	<u>ll be</u>
generated.							

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Maximum atmospheric concentration for 8 hr. working day is 0.02 ppm.

EFFECTS OF OVEREXPOSURE Mucous membrane irritation and tightness of the chest. Irritation of the respiratory tract, coughing, headache, and shortness of breath

Exposure can lead to allergenic sensitivity.

EMERGENCY AND FIRST AID PROCEDURES Eyes: Flush eyes with water for 15 min., & consult a physician. Skin: wash with water & tincture of green soap. For severe exposure use safety shower & consult a physician. Inhalation: Remove to uncontaminated area,

administer oxygen if needed. Ingestion: Do not induce vomiting, give milk or water to reduce corrosiveness and get medical help. If vomiting should occur, more

water should be given in a further attempt to dilute the material.

SECTION VI - REACTIVITY DATA CONDITIONS TO AVOID STABILITY UNSTABLE STABLE X INCOMPATABILITY (Materials to avoid) Water, alcohols, strong bases, carboxylic acids and metal compounds HAZARDOUS DECOMPOSITION PRODUCTS Oxides of nitrogen, carbon monoxide, traces of hydrogen cyanide. conditions to Avoid Contact with moisture and other materials which react with isocyanates. MAY OCCUR HAZARDOUS POLYMERIZATION A COLOR OF THE STATE OF THE STA WILL NOT OCCUR The second of th

SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Spilled chemicals should be covered with sawdust and treated with dilute ammonium
hydroxide or alcohol and water in an open container before disposal.
WASTE DISPOSAL METHOD Waste disposal should be in accordance with federal, state, and
local enviornmental control regulations.

	SECTION VIII - SPECIAL P	ROTECTION IN	FORMATION	
RESPIRATORY PRO	TECTION (Specify type) Canister type ternal air source, or self co	gas mask, eq	uipped for organic vapors;	
-VENTILATION,	LOCAL EXHAUST		SPECIAL	
	MECHANICAL (General) To maintain concentration below TLV.		OTHER	
PROTECTIVE GLOVES Chemically resistant rubber or plastic gloves.		EYE PROTECTION Protective goggles; suitable for liquid handling.		
OTHER PROTECTIVE WORK areas to	VE EQUIPMENT. Eye wash stations gether with containers of ting	and safety s cture of gree	howers should be provided in n soap.	

SECTION IX - SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING MUST be stored in tightly closed containers and protected from moisture. Avoid
temperatures above 90°F (32°C) or below 70°F (21°C.)
This product reacts with water $\&$ other substances to provide ${ m CO}_2$ gas which can cause
sealed containers to expand, and possibly rupture. Do not reseal container if
contamination is suspected. GPO 934-190

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U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration Form Approved OMB No. 44-R1387

USDI Safety and Health Regulations for Ship Repairing

<u> </u>		SECT			
ANUFACTURER'S NAME			ELEPHONE NO.		
· 1			21-4260		
DORESS (Number, Street, City, State, and ZIP)	Codel			:	
14000 S Western Ave. G	arder	ia, Ca	90249	IYMS	
Polyester PolyoI		3 30 T	Stafoam		
POlyurethane Polyhydroxyl Co	mpoun	d	FORMULA AA 610. Component	: R	
			DAC # DPM 6117		
SECTIO	NII -	HAZAR	DOUS INGREDIENTS	·	TLV
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COAT	ings %	(Units
GMENTS			BASE METAL		
ATALYST			ALLOYS		<u> </u>
EHICLE			METALLIC COATINGS		
OLVENTS '		Annual Care	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
THERS					
HAZARDOUS MIXTUI	RES OF	OTHER LI	QUIDS, SOLIDS, OR GASES	,	(Unit
Polyol Blend					
Water					
		• •			
•	 -			·	
S	ECTIC	N III -	PHYSICAL DATA		
BOILING POINT (°F.)		SPECIFIC GRAVITY (H2O=1)		1 0=1	
VAPOR PRESSURE (mm Hg.)			PERCENT, VOLATILE BY VOLUME (%)		
VAPOR DENSITY (AIR=1)			EVAPORATION RATE (=1)		
SOLUBILITY IN WATER					
APPEARANCE AND ODOR					·
SECTION IV	/ - FI	RE AND	EXPLOSION HAZARD DATA		Uel
FLASH POINT (Method used) 300°F Pensky Martin C.	c		FLAMMABLE LIMITS	Lei	021
		•		•	
EXTINGUISHING MEDĪA					
EXTINGUISHING MEDÎA	ng ar	parat	us.	•	

· .	*				
	SECTION V - HEALTH HAZARD DATA				
THRESHOLD LIMIT V		·			
Not establis	acsure.	3 1 - 3 1 3			
None observed	i. This type of polyester may be regarded	as physiologically			
innocuous.					
EMERGENCY AND FIT Skin; Flush	rst AID PROCEDURES with soap and water				
Eyes: Flush	with copious amounts of water				
	1				
	SECTION VI - REACTIVITY DAT	Α			
STABILITY	UNSTABLE CONDITIONS TO AVOID				
	STABLE , TOTAL TO THE STATE OF				
INCOMPATABILITY !	Materials to avoid)				
	POSITION PRODUCTS				
Aliphetic Fr	agments, CO, CO2 H10 CONDITIONS TO A	VOID			
HAZARDOUS POLYMERIZATION	MAY OCCUR				
702111211211	WILL NOT OCCUR				
	SECTION VII - SPILL OR LEAK PROC	EDURES			
STEPS TO BE TAKEN	oil absorbing compounding and flush with	large volumes of hot water.			
	and the contract of the contra				
With proper	precautions, solvents such as methylene of	HIOPIde May be used:			
WASTE DISPOSAL M Waste mater	ETHOD all may be incinerated under conditions v	which meet federal state and			
	ommental control regulations.				
local envir	onmental control regulations.				
L					
	SECTION VIII - SPECIAL PROTECTION IN	FORMATION			
1	TECTION (Specify type)	1			
None require	LOCAL EXHAUST	SPECIAL			
VENTILATION	No special requirements MECHANICAL (General)	OTHER			
	,				
PROTECTIVE GLOVES EYE PROTECTION Figure 1 over 1					
Rubber gloves for cleanliness Liquid goggles OTHER PROTECTIVE EQUIPMENT					
SECTION IX - SPECIAL PRECAUTIONS					
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING This material is hygroscopic and containers should be tightly closed to prevent					
contamination with foreign material and moisture.					
Recommended storage temperature is 65°- 85°F					

GP0 934-170

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